

Title (en)
ENCAPSULATED TRANSDUCER WITH SLEEVE AND COMPONENT ALIGNMENT

Title (de)
EINGEKAPSELTE WANDLER MIT HÜLSE UND KOMPONENTENAUSRICHTUNG

Title (fr)
TRANSDUCTEUR ENROBE A MANCHON ET ALIGNEMENT DE COMPOSANTS

Publication
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Application
EP 96936395 A 19961010

Priority
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• US 54311395 A 19951013

Abstract (en)
[origin: US6131270A] An encapsulated transducer (10) includes an injection molded encapsulation (20) having front end (22) and back end (24). The encapsulation (20) is a monolith of cured moldable material ensconcing a sensing element or coil (90) proximate front end (22) and a portion of an information transmitting medium (120) emanating from back end (24). A component alignment preform (40) operatively couples sensing element (90) with information transmitting medium (120). A protective sleeve (150) is transfer molded over coil (90) and interlocked with preform (40) thereby forming a sleeved coil and cable assembly (170). This sleeved coil and cable assembly (170) is encapsulated by an injection molding process which provides the durable encapsulation (20). The sleeved coil and cable assembly (170) is symmetrically disposed within the encapsulation (20) and the encapsulation (20) includes an integrally formed protective wall having a uniform thickness "T" along a forwardmost portion of sensing element (90) and integrally transitioning into an uninterrupted side wall circumscribing the sensing element and a portion of the cable.

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